Please amend the claims as follows:

1. (currently amended) In a system having a plurality of computers each having data sets stored thereon, a method of assigning a computer to service a request for a data set, said method

comprising the steps of:

(a) providing a neural network having at least an input layer having J input nodes and

an output layer having K output nodes, each of said output nodes associated with one of

said computers, and associated weights w(j,k) between each said input node and each

said output node;

(b) receiving a request for particular data set 4;

(c) imputing inputting to said input layer an input vector having an entry R(I) at input

node I, said entry R(I) being dependent upon a the number of requests for the requested

said particular data set over a predetermined period of time; and

(d) selecting a computer assignment associated with a selected one of said output

nodes to service said particular data set data request, where said selected output node is

associated with a specific weight, said specific weight selected to minimize a

predetermined metric measuring the a distance between said vector entry R(I) and the

said weights(i I,k), where i=I, associated with said input node I and said output nodes;

(e) updating said specific weight by modifying said specific weight with a first factor

dependent said metric distance between said vector entry R(I) and said specific weight

and a second factor dependent upon a means to balance a load across a subset of said

output nodes.

2-4 (canceled)

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5. (currently amended) In the system of claim 1,

The method of claim 1 where said means to balance a the load across a subset of said output

nodes is dependent upon a the number of data requests serviced by said subset of said output

nodes over said predetermined period of time divided by the a number of output nodes in said

subset of said output nodes.

6. (currently amended) In a system having a plurality of computers each having data sets stored

thereon, a method of assigning a computer to service a request for a data set, said method

comprising the steps of:

(a) providing a neural network having at least an input layer having J input nodes and

an output layer having K output nodes, each of said output nodes associated with one of

said computers, and associated weights w(j,k) between each said input node and each

said output node;

(b) receiving a request for particular data set;

(c) inputting to said input layer an input vector having an entry R(I) at input node I,

The method of claim 2 wherein said R(I) is proportional to a the ratio of (the a number

of previous requests for the requested said particular data set) and to (the a number of

previous requests for a subset of all requested data sets), over said predetermined period

of time;

(d) selecting a computer associated with a selected one of said output nodes to service

said request for said particular data set, where said selected output node is associated with

a specific weight, said specific weight selected to minimize a predetermined metric

measuring the distance between said vector entry R(I) and said weights(j,k), where j=I,

associated with said input node I and said output nodes; and

(e) updating said specific weight according to a predetermined update rule.

7. (currently amended) In a system having a plurality of computers each having data sets stored

thereon, a method of assigning a computer to service a request for a data set, said method

comprising the steps of:

(a) providing a neural network having at least an input layer having J input nodes and

an output layer having K output nodes, each of said output nodes associated with one of

said computers, and associated weights w(j,k) between each said input node and each

said output node;

(b) receiving a request for particular data set;

(c) inputting to said input layer an input vector having an entry R(I) at input node I,

said entry R(I) being dependent upon a number of requests for said particular data set

over a predetermined period of time and

(d) selecting a computer associated with a selected one of said output nodes to service

said data request, where said selected output node, The method of claim 2 wherein each

output node is associated with a neighborhood of other output nodes and said output node

is associated with a specific weight, said specific weight selected to minimize a

predetermined metric measuring a distance between said vector entry R(I) and said

weights (j,k), where j=I, associated with said input node I and said output nodes; and

(e) updating said specific weight with a predetermined update rule, and said step of

updating said specific weight includes updating each said weight w(i,k) in said neighborhood of

said output node associated with said specific weight.

8. (currently amended) In a system having a plurality of computers each having data sets stored

thereon, a method of assigning a computer to service a request for a data set, said method

comprising the steps of:

(a) providing a neural network having at least an input layer having J input nodes and

an output layer having K output nodes, each of said output nodes associated with one of

said computers, and associated weights W(j,k) between each said input node and each

said output node;

(b) receiving a request for particular data set;

(c) inputting to said input layer an input vector having an entry R(I) at input node I,

said entry R(I) being dependent upon a number of requests for said particular data set

over a predetermined period of time and

(d) selecting a computer associated with a selected one of said output nodes to service

said request for said particular data set, where said selected output node is associated with

a specific weight, said specific weight selected to minimize a predetermined metric

measuring a distance between said vector entry R(I) and said weights W(j,k), where j=I,

associated with said input node I and said output nodes; and

(e) updating said specific weight The method of claim 2 where said update is according

to the formula W(I,j)=W(I,j) +alpha((R(I)-w(I,j)) + beta $(\sum W(i,k)$ -gama*W(I,j)) where alpha,

beta and gama are pre-determined constants.

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9. (currently amended) The system of The method of step-claim 1 wherein said input vector's

components, other than said entry component R(I) associated with said input node I, are of value

zero.

10.-12 (canceled)

13. (currently amended) The method according to The system of claim 1 further comprising the

step of transmitting said request for said particular data set to said server—selected computer.

associated with said server assignment.

14. - 15 (canceled)